

ABSTRACT

Cameras, optical systems, imaging methods and optical filter configuration methods are described. According to one embodiment, a camera includes an image device configured to receive light of a subject and to provide an image representation of the subject from the light, wherein the image representation is usable to generate a visible image of the subject, a lens system optically coupled with the image device and configured to direct the light to the image device, wherein the image device is configured to generate the image representation while having a first sensitivity to a first wavelength of light and a second sensitivity to a second wavelength of light different than the first sensitivity, and a filter optically coupled with the lens system and corresponding to the image device wherein the filter is configured to pass a first quantity of photons having the first wavelength of light for the subject and a second quantity of photons having the second wavelength of light for the subject.